Mathematical Biosciences

an international journal

Volume 105 1991

NORBERTO JOSÉ BARTOLONI (Buenos Aires, Argentina)
Application of Markov Chains to Linked Genes with Interference I. No Selection 1

HERVÉ SINOQUET AND RAYMOND BONHOMME (Pointe-à-Pitre, French Antilles)
A Theoretical Analysis of Radiation Interception in a Two-Species Plant Canopy 23

MAREK KIMMEL (Houston, Texas) AND OVIDE ARINO (Pau, France)
Cell Cycle Kinetics with Supramitotic Control, Two Cell Types, and Unequal Division: A Model of Transformed Embryonic Cells 47

ROBERT F. V. ANDERSON (Vancouver, British Columbia)
Geometric and Probabilistic Stability Criteria for Delay Systems 81

EDWARD H. KAPLAN (New Haven, Connecticut)
Mean-Max Bounds for Worst-Case Endemic Mixing Models 97

L. J. S. ALLEN, M. A. JONES, AND C. F. MARTIN (Lubbock, Texas)
A Discrete-Time Model with Vaccination for a Measles Epidemic 111

NOTE

ROSS D. BOYLAN (Bloomington, Indiana)
A Note on Epidemics in Heterogeneous Populations 133

A. KOPP-SCHNEIDER (Heidelberg, Germany), C. J. PORTIER (Research Triangle Park, North Carolina), AND F. RIPPMANN (London, England)
The Application of a Multistage Model that Incorporates DNA Damage and Repair to the Analysis of Initiation/Promotion Experiments 139

F. SÖLER AND K. JANKOWSKI (Moncton, New Brunswick)
Modeling RNA Secondary Structures I. Mathematical Structural Model for Predicting RNA Secondary Structures 167

Elsevier

F. Söler and K. Jankowski (Moncton, New Brunswick)
Modeling RNA Secondary Structures II. The Geometric Structural Solution for tRNA 191
P. E. Rapp (Philadelphia, Pennsylvania), M. A. Jiménez-Montano (Veracruz, Mexico), R. J. Langs (Orangeburg, New York), L. Thomson (New York, New York), and A. I. Mees (Nedlands, Australia)
Toward a Quantitative Characterization of Patient-Therapist Communication 207
Yun-Xin Fu and Wen-Hsiung Li (Houston, Texas)
Necessary and Sufficient Conditions for the Existence of Certain Quadratic Invariants Under a Phylogenetic Tree 229

Book Reviews

E. Ann Stanley (Ames, Iowa)
Mathematical and Statistical Approaches to AIDS Epidemiology (C. Castillo-Chavez, Ed.) 239

Joel S. Brown (Chicago, Illinois)
Mathematical Evolutionary Biology (Marcus Feldman, Ed.) 243